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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/777,560	02/11/2004	Harry S. Luan	108-18.1	5757	
75	590 06/13/2005		EXAMINER		
Truong Dinh			NGUYEN, THINH T		
Dinh & Associa	<del>-</del>		ART UNIT PAPER NUMBER		
2506 Ash Street Palo Alto, CA 94306			2818		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commons	10/777,560	LUAN ET AL.	(gr)		
Office Action Summary	Examiner	Art Unit			
	Thinh T. Nguyen	2818			
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet w	ith the correspondence addr	ess		
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICATORY Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) day of the provision of the pr	FION.  CFR 1.136(a). In no event, however, may a left on.  s, a reply within the statutory minimum of thir y period will apply and will expire SIX (6) MON by statute, cause the application to become Ale	reply be timely filed  ty (30) days will be considered timely.  ITHS from the mailing date of this comb  BANDONED (35 U.S.C. § 133).	munication.		
Status					
1) Responsive to communication(s) filed or	n <u>11 February 2004</u> .				
2a) This action is FINAL. 2b)	☐ This action is non-final.				
3) Since this application is in condition for a closed in accordance with the practice u			nerits is		
Disposition of Claims					
4) ⊠ Claim(s) 1-21 is/are pending in the appli 4a) Of the above claim(s) is/are w 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-21 are subject to restriction a	rithdrawn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Ex	kaminer.	·			
0) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection	• • • • • • • • • • • • • • • • • • • •	, ,			
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for f a) All b) Some * c) None of:  1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action fo	uments have been received. uments have been received in A ne priority documents have beer Bureau (PCT Rule 17.2(a)).	Application No received in this National S	tage		
Attachment(s)	_				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date	Paper No	Summary (PTO-413) s)/Mail Date informal Patent Application (PTO-1 	52)		

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## **DETAILED OFFICE ACTION**

## Election/Restrictions

Claims 1-21 are pending in this application.

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Group I. Claims 1-14 drawn to a semiconductor device, classified in class 257, subclass 54.
- Group II. Claims 15-17, drawn to process of making a semiconductor device, classified in class 438, and subclass 48.
- Group III. Claims 18-21, drawn to process of using a semiconductor device, classified in class 365, and subclass 185.18.
- 2. The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of following can be shown: (1) that the process as claimed can be use to make other and materially different product or by hand, or (2) that process as claimed can be made by another and materially different process. (MPEP § 806.05(f)). In the instance case unpatentabilities of the group I invention would not necessarily imply unpatentability of the group II invention, since the device of the group I invention could be made by the processes materially different from those of the group II invention, for example, in the claim 15 a method for fabricating the device of claim 1 wherein the step of forming a plurality of the memory cells for the first array can be performed first and the step of forming the plurality of word line can be performed second which is a materially different method from claim 15 and the same structure of claim 1 will resulted.

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3. The inventions are distinct, each from the other because of the following reasons: Inventions III and I are related as process of using and product made. The inventions are distinct if either or both of following can be shown:: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, for example, in the claim 19 a method for programming a memory device wherein this method can be used to program a resistive memory device that does not have a schottky diode which is a materially different device from claim 1.

- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, the fields of search are not co-extensive. Therefore, separate examination would be required and restriction for examination purposes as indicated is proper.
- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(h).
- 6. Any inquiry concerning this communication on earlier communications from the examiner should be directed to Thinh T Nguyen whose telephone number is 571-272-1790. The examiner can normally be reached on Monday-Friday from 9:00 AM to 6:00 PM. The examiner's supervisor, David Nelms can be reached on 571-272-1787. The-fax

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phone number for the organization where this application or proceeding is assigned is

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(703) 872-9306

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval [ PAIR ] system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

Thinh T Nguyen

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Bavid Nelms
Supervisory Patent Examiner
Technology Center 2800